

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) An electro-mechanical screw actuator assembly, of the type comprising:

an electric motor (30) with a stator (31) and a rotor (34),

a screw mechanism (60), including a rotatable nut (61) and a central screw (62) translatable along a given axis (x),

a planetary gear reduction system (50), disposed between the rotor (34) and the screw mechanism (60), for driving this mechanism,

~~characterized in that~~ wherein the rotor (34) carries a plurality of satellite gears (52) of the reduction system (50).

2. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 1, ~~characterized in that~~ wherein the rotor (34) has an outer peripheral toothing (37).

3. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 2, ~~characterized in that~~ wherein at least the toothing (37) of the rotor is made of metallic material.

4. (Currently Amended) ~~An~~ The actuator assembly ~~according to claim 2 or 3,~~ characterized in that of claim 2, wherein the toothing (37) is formed as a single piece with the rotor (34).

5. (Currently Amended) ~~An~~ The actuator assembly ~~according to any one of claims 2 to 4,~~ characterized in that of claim 2, wherein the toothing (37) is carried or formed by a peripheral edge of a radial flange (36) of the rotor (34), the flange being provided with a plurality of axially protruding pins (51) for rotatably supporting the satellite gears (52).

6. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 3, ~~characterized in that wherein~~ it comprises position sensor means (38) operatively associated with the metallic toothing (37) in order to provide signals indicative of the angular position of the rotor (34).

7. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 6, ~~characterized in that wherein~~ the sensor means (38) are carried by an annular supporting bracket (39) mounted on one side of the stator (31).

8. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 7, ~~characterized in that wherein~~ the motor (30) is a brushless electric motor and that the bracket (39) carries further sensor means for controlling the switching of the brushless motor.

9. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 2, ~~characterized in that wherein~~ it further comprises at least a locking means (16) controlled for being selectively movable between a position engaged with the toothing (37) for locking rotation of the rotor (34) and a position disengaged from the toothing (37) for allowing rotation of the rotor.

10. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 1, ~~characterized in that wherein~~ each of the satellite gears (52) has two toothed portions (53, 54):

- a first toothed portion (53) meshing with a fixed gear (55) and
- a second toothed portion (54) meshing with a gear (56) fast for rotation with the nut (61).

11. (Currently Amended) ~~An~~ The actuator assembly ~~according to any one of the preceding claims of claim 1,~~ coupled with a brake calliper (A) for operating a braking force on a motor vehicle.